Special Issue

Wetland Ecosystems—Functions and Use in a Changing Climate

Message from the Guest Editor

Wetland ecosystems are transitional zones between terrestrial and aquatic ecosystems. Climate change is recognized as a major threat to wetland ecosystems. They can be impacted or even destroyed by drought, extreme precipitation or floods. Although wetlands are at risk of being seriously affected by climate change, they are an important component in the global carbon cycle, as they can modulate atmospheric concentrations of greenhouse gases such as methane, carbon dioxide and nitrous oxide. In fact, they store more carbon than any other ecosystem on Earth. This Special Issue highlights recent developments in the following areas of climate change and wetland ecosystems:

- The effect of extreme climate change on the wetland ecosystem;
- The role of wetlands in climate change mitigation through sequestration of greenhouse gases;
- Measurements of carbon and nitrogen fluxes across different types of wetland ecosystems;
- Simulation of carbon cycling and greenhouse gas emissions across different types of wetland ecosystems and how they respond to climate change.

Guest Editor

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
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